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AMENDMENT TO THE CLAIMS

1. (Currently Amended) In a large-area radiator of homogeneous luminance with a front pane and a rear element, wherein spacer elements extending from the front pane to the rear element include one end in contact with the front pane and an opposing end in contact with the rear element to keep the front pane apart from the rear element, a gaseous filler is introduced into a space between the front pane and the rear element and is at a lesser pressure than a pressure of a surrounding atmosphere, and the front pane is made of a glass material, the improvement comprising:

at least one of the front pane and the rear element at least partially of one of a thermally tempered glass pane and a chemically tempered glass pane.

2. (Previously Presented) In the large-area radiator in accordance with claim 1, wherein a temperature at which a viscosity of the glass material of at least one of the front pane and the rear element is 13.6 dPas (TG temperature) is greater than 550°C.

3. (Previously Presented) In the large-area radiator in accordance with claim 2, wherein at least one of a measurement of a wall thickness

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of at least one of the front pane and the back element is 1.5 mm to 2.1 mm, and a thermal tempering is greater than or equal to 60 MPa.

4. (Previously Presented) In the large-area radiator in accordance with claim 1, wherein at least one of a measurement of a wall thickness of at least one of the front pane and the back element is greater than 0.5 mm, and is tempered by a chemical tempering of more than 160 MPa.

5. (Currently Amended) In a large-area radiator of homogeneous luminance with a front pane and a rear element, wherein spacer elements extending from the front pane to the rear element include one end in contact with the front pane and an opposing end in contact with the rear element to keep the front pane apart from the rear element, a gaseous filler is introduced into a space between the front pane and the rear element and is at a lesser pressure than a pressure of a surrounding atmosphere, and the front pane is made of a glass material, the improvement comprising:

at least one of the front pane and the rear element each embodied as a glass pane which at least partially has a coating of a ductile polymer material.

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6. (Previously Presented) In the large-area radiator in accordance with claim 5, wherein the coating is a film including one of a silicon, a polyurethane and a polymer material, selected from a group of ormoceres.

7. (Previously Presented) In the large-area radiator in accordance with claim 6, wherein the coating has a thickness of more than 6 μm .

8. (Previously Presented) In the large-area radiator in accordance with claim 7, wherein the thickness of the coating is within a range of 6 μm and 50 μm .

9. (Previously Presented) In the large-area structure in accordance with claim 8, wherein a primer is used for bonding the coating to a surface of the glass pane, and the primer is one of a dimethoxydimethyl silane and a hexamethyl disilazane.

10. (Previously Presented) In the large-area radiator in accordance with claim 9, wherein the glass pane is at least partially tempered one of thermally and chemically.

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11. (Previously Presented) In the large-area radiator in accordance with claim 10, wherein the spacer elements are wavy and are arranged between the front pane and the rear element, wherein a wavy line extends generally parallel with a planar extension of the front pane.

12. (Previously Presented) In the large-area radiator in accordance with claim 5, wherein the coating has a thickness of more than 6 μ m.

13. (Previously Presented) In the large-area structure in accordance with claim 5, wherein a primer is used for bonding the coating to a surface of the glass pane, and the primer is one of a dimethoxydimethyl silane and a hexamethyl disilazane.

14. (Previously Presented) In the large-area radiator in accordance with claim 5, wherein the glass pane is at least partially tempered one of thermally and chemically.

15. (Previously Presented) In the large-area radiator in accordance with claim 1, wherein the spacer elements are wavy and are arranged

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between the front pane and the rear element, wherein a wavy line extends generally parallel with a planar extension of the front pane.

16. (Previously Presented) In the large-area radiator in accordance with claim 1, wherein at least one of a measurement of a wall thickness of at least one of the front pane and the back element is 1.5 mm to 2.1 mm, and a thermal tempering is greater than or equal to 60 Mpa.